RAZIFA KHATIK

+91-9284687383 | razifa721@gmail.com | razifakhatik | razifa183 | Nashik, Maharashtra (IN)

Education

Savitribai Phule Pune University **2022 – 2026**
Bachelor of Engineering – Artificial Intelligence and Data Science ***CGPA: 9.50***

Work Experience

BOSCH Ltd. **Dec'24 – Feb'25**
Data Science Intern *Nashik, MH*

- Developed a **Power BI** based Raw Material Supply Tracking Dashboard to monitor raw material trolley movement across six halt points improving supply tracking and real time logistics visibility also **increasing on-time delivery by 30%.**
- Built **a Django**-based C Coating Management System with visual batch tracking, enhancing process transparency and operator **efficiency by 40%.**
- Engineered the Schutte Hourly Monitoring System to **analyze Schutte machine data shift-wise and hourly**, reducing downtime by 20% and improving production analytics.
- Created **Prediction Model** using **Random Forest Machine Learning Model** with **accuracy of 80%** to classify shims from process parameters, reducing manual classification and increasing accuracy.
- Tools and Technologies: **Power BI, Data Cleaning, Data Analytics, Django, PostgreSQL, React.js, Node.js, JavaScript, Bootstrap, SQL, Machine Learning Algorithms, Model Evaluation, Hyperparameter Tuning.**

JPMorgan Chase & Co. **Feb'25 - Jun'25**
Software Engineering Job Simulation *Remote*

- Set up the project environment and integrated multiple services to create a working backend system
- Implemented **kafka** messaging system for **real-time data streaming** between services.
- Developed and tested **REST APIs**, integrating them with REST Controllers, also utilized **H2 Database** for in-memory storage
- Tools and Technologies: **Java, Spring Boot, Apache Kafka, H2 Database, REST API, Postman, Git, IntelliJ IDEA**

Acmegrade Organization **Jul'24 - Sep'24**
Data Science Intern *Remote*

- Designed a Used Cars Cost Prediction model using **regression algorithms** to estimate vehicle prices based on features like age, mileage and fuel type, **supporting smarter resale decisions**.
- Build a Sales Forecasting model using historical data and **time-series techniques** to predict future sales trends, enabling better inventory.
- Tools and Technologies: **Python, Data Wrangling, Data Preprocessing, Numpy, Pandas, Matplotlib, Seaborn, Machine Learning Algorithms.**

Projects

Brain Tumor Detection System

- Resolved delays and inaccuracies in brain tumor diagnosis by developing an AI-based MRI scan Classification system
- Developed a Deep Learning Model using **CNN** to classify brain tumors from MRI scans into types such as Glioma, Meningioma, Pituitary, and No Tumor.
- Integrated the train model into Django web app enabling the users to upload scans and receive predictions with user friendly message.
- Tools and Technologies: **Deep Learning Model, TensorFlow, Keras, Django, HTML, CSS, Bootstrap, JavaScript.**

AI-Based Retail Location Recommender System

- Implemented an AI driven scoring and ranking algorithm based on location intelligence, demographic data, and competition mapping to suggest high potential areas for given business type.
- Optimized retail success by designing a location intelligence system using geospatial data and footfall analysis.
- Developed a web-based interactive platforms with heatmaps, Dashboard, and real time business intelligence.
- Tools and Technologies: **Google Maps API, OpenStreetMap, Python, GeoPandas, Folium.**

AI-Powered Network Traffic Analyzer

- Engineered live packet monitoring system to capture traffic metadata enabled zero-day threat detection
- Implemented an Isolation Forest ML model, for anomaly detection in a live simulation environment
- Tools and Technologies: **Python, Scikit-learn, Pandas, Streamlit, Seaborn, Isolation Forest**

Technical Skills

Programming Languages: Python, C, C++, JavaScript, Java, SQL.

Web Development: HTML, CSS, Bootstrap, Tailwind, React.js, Node.js, Express.js, Django, REST APIs.

Databases: PostgreSQL, MongoDB, SQLite.

AI and Machine Learning: Scikit-Learn, TensorFlow, Keras, OpenCV, ML Algorithms, Hyperparameter Tuning, Model Evaluation.

Data Science & Analytics: Power BI, Excel, Pandas, NumPy, Seaborn, Matplotlib, Data Cleaning, Preprocessing, EDA.

Computer Fundamentals: Object Oriented Programming (OOP), Operating Systems (OS), Database Management Systems (DBMS), Data Structures and Algorithms, Software Engineering, System Design

Other tools: Jupyter Notebook, Colab, VS Code, Git, Github, Figma, Canva

Achievements

- **LeetCode:** Problems Solved **100+** questions
- Ranked among the **top 3 percent** students of Artificial Intelligence and Data Science department.
- **Winner** of "Best Website Development Competition"
- Ranked at **top 2nd Position** in "Best PowerPoint Presentation Competition"

Positions of Responsibility

Council Member, Student Council GCOERC **Sept'22 - Present**

- Coordinated departmental events, workshops and technical fests, ensuring smooth execution and high participations.

Technical Lead, Coding Club **Aug'22 - Present**

- Organized coding contests, hackathons and peer-to-peer learning sessions.

Volunteer, Artificial Intelligence and Data Science Student Association (ADSA) **Dec'23 - Oct'24**

- Assisted in AI-focused events, fostered an active coding culture, and organized diverse events and competitions.